## **CLAIMS:**

- 1. A system for monitoring status of a lighting system, the system comprising:
  - a lamp assembly comprising a housing and a lamp disposed in the housing;
- a lens disposed adjacent to the lamp, the lens comprising a conductor adapted to lose electrical continuity upon occurrence of a crack in the lens; and
- a monitoring system coupled to the conductor and configured to detect the loss of electrical continuity in the conductor.
  - 2. The system of claim 1, wherein the lens comprises glass.
- 3. The system of claim 1, wherein the lens comprises a moldable polymeric material.
  - 4. The system of claim 1, wherein the lens is sealed to the housing.
- 5. The system of claim 1, wherein the conductor comprises a conductive wire.
- 6. The system of claim 1, wherein the conductor comprises a decal configured to be disposed on a surface of the lens.
  - 7. The system of claim 1, wherein the conductor is embedded in the lens.
- 8. The system of claim 1, wherein the conductor defines a continuous path disposed over a desired region of the lens.
- 9. The system of claim 8, wherein the region comprises a central region of the lens.

- 10. The system of claim 8, wherein the region comprises a peripheral region of the lens.
- 11. The system of claim 1, further comprising a communication system for transmitting a signal to a remote location, representative of a state of continuity of the conductor.
  - 12. A kit for monitoring status of a lighting system, the kit comprising: a lens; and

a conductor disposed in a region of the lens, wherein the conductor is adapted to lose electrical continuity upon occurrence of a crack in the lens.

- 13. The kit of claim 12, wherein the lens comprises glass.
- 14. The kit of claim 12, wherein the lens comprises a moldable polymeric material.
- 15. The kit of claim 12, wherein the conductor comprises a conductive wire.
- 16. The kit of claim 12, wherein the conductor comprises a decal configured to be applied to a rear surface of the lens.
- 17. The kit of claim 12, wherein the region comprises a central region of the lens.
- 18. The kit of claim 12, wherein the region comprises a peripheral region of the lens.
- 19. A method for monitoring status of a lighting system, the method comprising:

disposing a lens in a lamp assembly;

disposing a conductor over a desired region of the lens, the conductor adapted to lose electrical continuity upon occurrence of a crack in the lens; and monitoring the conductive path for a loss in electrical continuity.

- 20. The method of claim 19, wherein disposing the lamp in the lamp assembly comprises sealing the lens in a lamp housing.
- 21. The method of claim 19, wherein monitoring the conductive path comprises coupling the conductor to an electrical monitoring system configured to apply a monitoring signal to the conductor during operation.
- 22. A method for monitoring status of a lighting system, the method comprising:

monitoring a state of continuity of a conductor coupled to a lens in a lamp assembly, wherein the continuity is interrupted by a crack in the lens; and

generating a signal in response to loss of continuity of the conductor indicative of occurrence of a crack in the lens.

- 23. The method of claim 22, further comprising providing an output signal to a location remote from the lighting system, the output signal providing an indication of the operational state of the lens.
  - 24. A lens configured for detecting cracks comprising:
  - a lens disposed adjacent to a lamp; and
- a conductor disposed in a region of the lens, wherein the conductor is adapted to lose a continuity in response to formation of a crack in the lens, the conductor comprising a plurality of leads configured to be coupled to a monitoring system and to provide a signal to a remote location representative of a state of continuity of the conductor.
- 25. The crack detection lens of claim 24, wherein the conductor comprises a conductive wire.

- 26. The crack detection lens of claim 24, wherein the region comprises a central region of the lens.
- 27. The crack detection lens of claim 24, wherein the region comprises a peripheral region of the lens.
- 28. A system for monitoring status of a lighting system, the system comprising:
  - a lamp assembly comprising a housing and a lamp disposed in the housing;
  - a lens disposed adjacent to the lamp;
- a reflector disposed adjacent to the lamp, the reflector comprising a reflector conductor adapted to lose electrical continuity upon occurrence of a crack in the reflector; and
- a monitoring system coupled to the reflector conductor and configured to detect the loss of electrical continuity in the reflector conductor.
- 29. The system of claim 28, further comprising a conductor disposed on the lens and adapted to lose electrical continuity upon occurrence of a crack in the lens, and a monitoring system coupled to the conductor and configured to detect the loss of electrical continuity in the conductor.
  - 30. The system of claim 28, wherein the reflector comprises glass.
- 31. The system of claim 28, wherein the reflector comprises a moldable polymeric material.
- 32. The system of claim 28, wherein the reflector conductor comprises a conductive wire.
- 33. The system of claim 28, wherein the reflector conductor is configured to be disposed on a rear surface of the reflector.

- 34. The system of claim 28, wherein the reflector conductor is configured to be defines a continuous path disposed over a desired region of the reflector.
- 35. The system of claim 28, further comprising a communication system for transmitting a signal to a remote location, representative of a state of continuity of the reflector conductor.